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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

Brooklyn entomological society. *Brooklyn, N. Y.* Check list of the macro-lepidoptera of America, north of Mexico. Brooklyn, N. Y., Jan. 1882. t.-p. cover, t.-p. + [2] + 25 + 4 p., 24 × 15.

List of lepidoptera rhopalocera and of sphingidae, sesiidæ, zygaenidae, bombycidae, noctuidæ and geometridæ; enumerating about 3688 species; index of genera. B: P. M. (3283)

Bush, Mrs. A. E. Trees attractive to butterflies. (Amer. nat., July 1881, v. 15, p. 572.)

Attraction of butterflies by *pinus insignis*. G: D. (3284)

Butlerow, A. Eine beobachtung mehr. (Deutscher bienenfreund, 15 March 1881, jahrg. 17, p. 81-83.)

Age at which worker bees undertake different parts of their work. G: D. (3285)

Cambridge. Octavius Pickard. External parasites of spiders. (Entomologist, Sept. 1882, v. 15, p. 216.)

Parasitism of *acrodactyla degener* on various spiders. G: D. (3286)

Neumoegen, Berthold. A new species of *antarectia* from Mount Hood, Oregon. (Papilio, 31 May 1881, v. 1, p. 79-80.)

Describes as new *antarectia rubra*, ♂ ♀; compares it with *a. punctata*, Pack. H: E. (3287)

Riley, C: Valentine. Lepidopterological notes. (Papilio, July 1881, v. 1, p. 106-110.)

Advance reprint of extracts from Bulletin no. 6, U. S. entom. comm. [Rec., 3290], p. 59-58, 78, 82-83; states that *plusia brassicae* is not *p. n.*, and that *gortyna nebris*=*g. nitela*; contends that *aletia argillacea* Hübn is not the *anomis xylina* of Say; gives notes on *pempelia grossulariaris*, *penthina vitivorana*, *arytychhia saliguana*, *anchylopera fragarior*, *larix cludrelli* and *octa compta*; describes the egg of the last-named species. H: E. (3288)

Trelease, W: On the structures which favor cross-fertilization in several plants. (Proc. Bost. soc. nat. hist., [12] Oct. 1882-Jan. [5 Feb.] 1883, v. 21, p. 410-440, pl. 6-8.)

Incl. les notes on fertilization of plants by insects. G: D. (3289)

United States entomological commission. Bulletin no. 6. General index and supplement to the nine reports on the insects of Missouri. By C: V. Riley. *M. A., Ph.D.* Wash., 24 Mch. 1881. t.-p. cover, t.-p., 178 p., 23 × 15.

Extracts, by author, entitled "Lepidopterological notes." (Papilio, July 1881, v. 1, p. 106-110.)

Rev., entitled "Index to Riley's nine reports on the insects of Missouri." (Amer. nat., Oct. 1881, v. 15, p. 801.)

a. Introduction, p. 5-7. b. Tables of contents of the reports, p. 9-45. c. Corrections of errata, p. 46-51. d. Notes and additions [of the more important facts ascertained about insects treated in the reports, with later or more correct nomenclature], p. 52-63. e. Descriptions of new species and varieties [reprinted from the reports, with notes and corrections], p. 64-90. f. List of descriptions of adolescent states [referring to previously published descriptions of the same, when any exist], p. 91-95. g. List of descriptions, mostly amplified, of species not new, p. 96-97. h. List of illustrations [arranged in serial order, designating those not original], p. 98-118. i. Classified list of illustrations [in systematic order], p. 110-123. j. General index, p. 125-166. k. Index to plants and food-plants, p. 167-177. l. Errata [in this work], p. 178. B: P. M. (3290)

United States entomological commission [C: V. Riley, A. S. Packard, jr., Cyrus Thomas] (Department of the interior), 2d report for the years 1878 and 1879, relating to the Rocky Mountain locust, and the western cricket and treating of the best means of subduing the locust in its permanent breeding grounds, with a view of preventing its migrations into the more fertile

portions of the trans-Mississippi country, in pursuance of appropriations made by Congress for this purpose. Wash., 1880 [Meh. 1881]. 18+322+80 p., 17 pl., each plate with 1 leaf explanation. 24×15; map 1, in 6 pts., each 56×43; map 2-4. 24×31; 10 fig.

Notice. (Springfield [Mass.] d. republican. 5 Oct. 1880. p. 5, col. 1, 7 cm.)

Extract, entitled "The Rocky Mountain locust." (Colonies and India, 30 April 1881. p. 15, 25 cm.)

Extract from chap. 13, by Riley, entitled "Larval habits of bee-flies." (Amer. nat., June 1881. v. 15, p. 438-447, 6.)

Rev. (Amer. nat., July 1881. v. 15, p. 554-555.)

Germ. tr. of part of p. 260, entitled "Epicauta vittata aus eiern zu erziehen." (Entom. nachr., 1 Aug. 1881, jahrg. 7, p. 228.)

Separate of chap. 13, author's ed., by Riley, with half-t.-p. cover and half-t.-p., entitled "The Rocky Mountain locust. Further facts about the natural enemies of locusts." [Wash.], 1880. +p. 259-271, pl. 16, with 1 leaf expl. of pl., 23×15.

Separate of chap. 14, author's ed., by Riley, with half-t.-p. cover and half-t.-p., entitled "The Rocky Mountain locust. Permanent courses for the government to adopt to lessen or avert locust injury." [Wash.], 1880. +p. 271-322, 23×15; map 1, in 6 parts, each 56×43.

Separate of appendix 2, author's ed., by Scudder, with half-t.-p. cover and half-t.-p., entitled "List of orthoptera collected by Dr. A. S. Packard, jr., in the western United States in the summer of 1877." [Wash.], 1880. +p. 23-28, pl. 17, 24×15.

Separate of appendix 4, author's ed., by Mann, with half-t.-p. cover and half-t.-p., with same title, [Wash.], 1880 [18 Meh. 1881]. +p. 33-56. 24×16.

a. T.-p., table of contents, letter of transmittal, preface, p. 1-18. b. Chap. 1: Additions to the chronology of locust ravages [for 1878 and 1879] (by Packard and Riley), p. 1-14. c. Chap. 2: The relation of the locust and its ravages to agriculture and the settlement of the territories [plans for reducing the numbers of the locusts] (by Thomas), p. 14-31. d. Chap. 3: Facts concerning and laws governing the migrations of locusts in all countries [with definition of limits and characterization of permanent breeding-grounds, and references to literature] (by Thomas), p. 31-72. e. Chap. 4: Habits or characteristics of locusts in all countries within their areas of permanent distribution, so far as these relate to their movements [phenomena and causes of migration] (by Thomas), p. 72-108. f. Chap. 5: Influence of meteorological conditions on the development and migrations of locusts [with statistical tables] (by Thomas), p. 109-155. g. Chap. 6: The southern limits of the distribution of the Rocky Mountain locust [with history of locust invasions in New Mexico] (by Pack-

ard), p. 156-160. h. Chap. 7: Summary of locust flights from 1877 to 1879 (by Packard), p. 160-163, map 2-4. i. Chap. 8: The western cricket [habits, ravages, food, enemies and parasites of *anabrus purpurascens* and a. simplex, anatomy and geographical distribution of the species of *anabrus* (by Packard); synopsis of the species of and genera allied to *anabrus* (by Thomas)], p. 163-178, fig. 1-5. j. Chap. 9: The air-sacs of locusts with reference to their powers of flight (by Packard), p. 178-183, pl. 1. k. Chap. 10: Histology of the locust (*caloptenus*) and the cricket (*anabrus*) [with bibliography of the histology of insects] (by C. S. Minot), p. 183-222, fig. 6-8, pl. 2-8. l. Chap. 11: The brain of the locust [anatomy and histology, with list of works on the internal structure of the brain of crustacea and insects] (by Packard), p. 223-242, fig. 9, pl. 9-15. m. Chap. 12: Locust ravages in California [generic and specific characters of *camnula fellucida*; reprint of original descriptions of this species under the names of *oedipoda fellucida*, *o. atrox* and *c. tricarinata*; its ravages and enemies; description of *oedipoda oblitterata* n. sp.; notes on *anabrus haldemani* and *cratypetes putnami*] (by Riley and Thomas), p. 242-259, fig. 10. n. Chap. 13: Further facts about the natural enemies of the locusts [retardation of development in *epicauta vittata*, and its advantages to the species; description (by H. G. Hubbard) of early stages and habits of *chaulognathus pennsylvanicus* and of oviposition and eggs of *mallophora oreina*; parasitism of *styxochus areas* and *triodites mus* on eggs of *camnula fellucida*; description and figures of larva, pupa and imago of these parasites; review of previous knowledge on the habits of larvae of *bomblyliidae*, and addition thereto; great abundance of *gordius* and *trombidium* in California in 1879; *camnula fellucida* attacked by chalcid flies and by *larva tarsata*; *caloptenobia ovivora* = *scelio* ("sparsation") *famelicus*] (by Riley), p. 259-271, pl. 16. o. Chap. 14: Courses that may be adopted by the general government to lessen locust injury (by Riley), p. 271-322, map 1. p. Appendix 1: Miscellaneous data and replies to circular no. 1, p. 3-22. q. App. 2: List of the orthoptera collected by Dr. A. S. Packard in the western United States in the summer of 1877 [describing *bradynotes opimus*, *pezotettix capicinus* (fig.), *gomphoceris shastanus* (fig.), *circotettix maculatus* (fig.), *trimerotropis latifasciata*, *t. similis*, *t. caeruleipes*, *psimidia wallula* (fig.) = *S. n. spp.*, and figuring *melanoflus cinereus*, *n. devastator*, *m. atlanis*, *m. packardii*, *pezotettix borckii*, *camnula atrox*, *arphia frigida*, *trimerotropis vinculata*] (by S. H. Scudder), p. 23-28, pl. 17. r. App. 3: Report of John Marten [observations made in Iowa, Dakota, Minnesota and Nebraska, in 1879], p. 29-32. s. App. 4: Bibliography of some of the literature concerning destructive locusts [of Europe, Asia, and Africa (by B. P. Mann), with supplementary list (by Thomas)], p. 33-56. t. App. 5: Data concerning locusts in Texas [and in Indian Territory, in 1877] (furnished by A. J. Myer, from signal service records), p. 57-61. u. App. 6: On the flight of locusts [transl. by F. P. Spofford from G. de Laetitiis' "Sulle locuste, dette volgarmente bruchi" (Atti del r. istit. incorrag. alle sci. nat. di Napoli, 1811, t. 1, p. 233-296); incursions and ravages of *pachytylus migratorius*, and means against them]; Of the locusts which desolated various provinces of Spain from the year 1754 until 1757 [transl. by F. P. Spofford from F. Milliz's Ital. transl. entitled "Introduzione alla storia naturale e alla geografia fisica di Spagna . . ." Parma, 1783] of W. Bowles' "Introduzione a la historia natural y a la geografia fisica de España" (Madrid, 1775), t. 2, p. 1-24; habits of *caloptenus italicus*], p. 63-68. v. App. 7: Notes of a journey made in Utah and Idaho in the summer of 1878, by A. S. Packard, jr. [miscellaneous observations on occurrence of *caloptenus spretus* and *anabrus simplex*], p. 69-71. w. App. 8: Yersin's researches on the functions of the nervous system of the articulate animals [transl. by Packard from H. de Saussure's "Notice sur la vie et les écrits de Alexandre Yersin" (1866)], p. 73-74. v. Index, p. 75-80. R. P. M. (3201)